

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/038172

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B21D26/02 B21D26/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99/41028 A (DAIMLERCHRYSLER AG; BIKERT, ARNDT; BOBBERT, STEFAN) 19 August 1999 (1999-08-19) page 3, paragraph 5 - page 6, paragraph 2; figures 1,2	1-15
X	DE 100 19 912 A1 (FORSCHUNGSGESELLSCHAFT UMFORMTECHNIK MBH) 31 October 2001 (2001-10-31)	1-3, 5-7, 9, 11, 15
A	column 2, line 7 - column 3, line 24; figures 1,3	4, 8, 10, 12
X	EP 0 985 465 A (KABUSHIKI KAISHA OPTON) 15 March 2000 (2000-03-15) column 8, line 51 - column 9, line 51; figures 1,6	1, 2, 5, 6, 9, 11, 15
	----- -/-- -----	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- * & * document member of the same patent family

Date of the actual completion of the international search

7 March 2005

Date of mailing of the international search report

31/03/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ritter, F

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/038172

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 38 40 939 A1 (KUHN, RAINER, DIPL.-ING., 6690 ST WENDEL, DE) 7 June 1990 (1990-06-07) claims 1,4,5; figures 1,2,5 -----	1,3,5,7, 9,15
X	DE 197 51 035 A1 (FORSCHUNGSGESELLSCHAFT UMFORMTECHNIK MBH, 70174 STUTTGART, DE; FORSCHU) 27 May 1999 (1999-05-27) column 1, line 66 - column 2, line 34; claims 1,4,7,8; figures 1-5 -----	1-3,5-7, 9,11,15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/038172

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9941028	A	19-08-1999	DE 19805172 A1	19-08-1999
			AT 220580 T	15-08-2002
			BR 9907797 A	17-10-2000
			CA 2320096 A1	19-08-1999
			DE 59902034 D1	22-08-2002
			WO 9941028 A1	19-08-1999
			EP 1054744 A1	29-11-2000
			ES 2178874 T3	01-01-2003
			HU 0101218 A2	28-08-2001
			JP 2002502706 T	29-01-2002
			PL 342219 A1	21-05-2001
			US 6282934 B1	04-09-2001
DE 10019912	A1	31-10-2001	NONE	
EP 0985465	A	15-03-2000	JP 3022506 B2	21-03-2000
			JP 2000084624 A	28-03-2000
			JP 2999757 B2	17-01-2000
			JP 2000084625 A	28-03-2000
			DE 69913057 D1	08-01-2004
			DE 69913057 T2	26-08-2004
			EP 0985465 A2	15-03-2000
			KR 2000023010 A	25-04-2000
			US 6128936 A	10-10-2000
DE 3840939	A1	07-06-1990	DE 3906958 A1	06-09-1990
DE 19751035	A1	27-05-1999	NONE	